

In the Claims:

1. (original) A measuring device for determining the flow rate of a mass flow particularly for measuring a bulk material flow, including an impeller wheel (2) supported by a drive shaft (3) for driving said impeller wheel with a constant rpm, said mass flow being admitted to said impeller wheel, which deflects the mass flow thereby imposing a radial and a tangential velocity component on the mass flow, whereby the drive shaft (3) comprises a drive spur wheel (11) meshing with an intermediate spur wheel (21) which is driven by a drive spur wheel (20, 31), and a force measuring device (26) holding the intermediate spur wheel in place, and that the drive shaft (3) is coaxially surrounded by a support sleeve (4) which reaches all the way into a housing space (1) of the impeller wheel (2), characterized in that the support sleeve (4) is driven by separate drive means (19, 32) whereby these separate drive means (19, 32) drive the support sleeve (4) with an rpm which corresponds to the rpm of the drive shaft (3), and wherein said support sleeve (4) is rotatably mounted in a stationary housing section (5).

2. (original) The measuring device of claim 1, characterized in that said support sleeve (4) is constructed as a tube that coaxially surrounds the drive shaft (3) and serves for

4           rotatably supporting (12, 34, 35) and guiding the drive  
5           shaft (3).

Claims 3 to 11 (canceled).

[REMARKS FOLLOW ON NEXT PAGE]